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(54) Title: ASSAY OF THE ACTIVATION STATE OF PLATELETS

(57) Abstract: The invention provides for quantitative measurement of an initial platelet activation state. In particular, the invention relates to a platelet activation assay that uses modified prothrombin, which is activated by prothrombinase and which generates thrombin that does not activate platelets but still retains proteolytic activity. In a specific example, prothrombin acetylated with sulfo-N-succinimidyl acetate generates thrombin in the presence of prothrombinase, in which the thrombin lacks platelet activating activity. Thrombin production is detected with a chromogenic peptide cleavage assay.